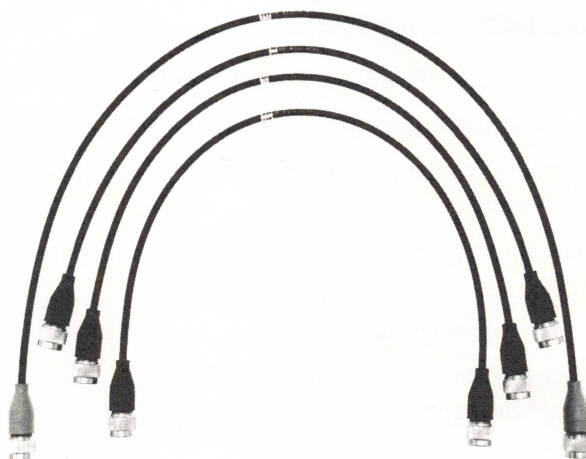


## OPERATING AND SERVICE MANUAL

# HP 11851B 50 $\Omega$ TYPE-N RF CABLE SET



Printed: MARCH 1986

© Copyright HEWLETT-PACKARD COMPANY 1986  
1400 FOUNTAINGROVE PARKWAY, SANTA ROSA, CALIFORNIA, 95401, U.S.A.



**HEWLETT  
PACKARD**

## WARRANTY

This Hewlett-Packard instrument product is warranted against defects in material and workmanship for a period of one year from date of delivery. During the warranty period, Hewlett-Packard Company will, at its option, either repair or replace products which prove to be defective.

For warranty service or repair, this product must be returned to a service facility designated by HP. Buyer shall prepay shipping charges to HP and HP shall pay shipping charges to return the product to Buyer. However, Buyer shall pay all shipping charges, duties, and taxes for products returned to HP from another country.

HP warrants that its software and firmware designated by HP for use with an instrument will execute its programming instructions when properly installed on that instrument. HP does not warrant that the operation of the instrument, or software, or firmware will be uninterrupted or error free.

## LIMITATION OF WARRANTY

The foregoing warranty shall not apply to defects resulting from improper handling by Buyer, Buyer-supplied software or interfacing, unauthorized modification or misuse, or operation outside of the environmental specifications for the product.

NO OTHER WARRANTY IS EXPRESSED OR IMPLIED, HP SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## EXCLUSIVE REMEDIES

THE REMEDIES PROVIDED HEREIN ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES, HP SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

## ASSISTANCE

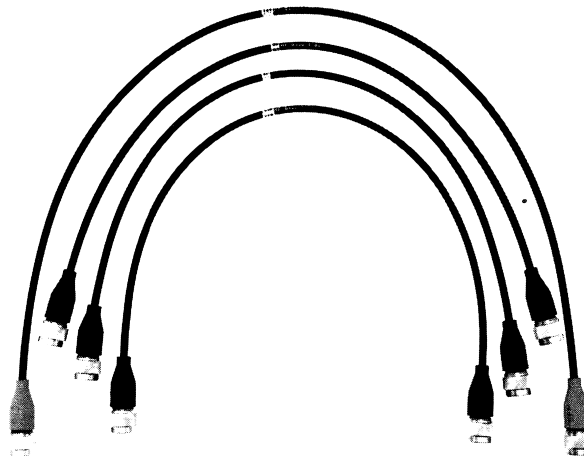
*Product maintenance agreements and other customer assistance agreements are available for Hewlett-Packard Products.*

*For any assistance, contact your nearest Hewlett-Packard Sales and Service Office. Addresses are provided at the back of this manual.*

## GENERAL INFORMATION

To obtain optimum performance from this cable set, observe these simple precautions:

- Flex and straighten the cables as little and as seldom as possible.
- Make connections carefully to avoid misalignment and connector damage or inaccurate measurements.
- Keep the connectors free of dirt and metallic particles.
- If you must clean the connectors, try clean compressed air first. Do not use abrasives. With a plastic swab, apply **only** liquid Freon (trichlorotrifluoroethane) as a solvent.
- For more information, refer to the Microwave Connector Care manual (HP part number 08510-90064) or application note 326, Principles of Microwave Connector Care (literature number 5954-1566).
- Type-N (male) outer conductor shoulder or dielectric recession: 0.208 inch minimum.



## DESCRIPTION

The HP11851B RF cable set, pictured above, provides the shielded RF connections required when using network analyzers, such as the HP 8753A, with test sets or power splitters. This set consists of three phase-matched RF cables and one longer unmatched cable. Single phase-matched cables and single unmatched cables may be ordered with the part numbers listed below.

## OPERATING CHARACTERISTICS

	Three Phase-Matched RF Cables HP Part Number 8120-4781	One Unmatched RF Cable HP Part Number 8120-4780
Impedance	50 $\Omega$ (nominal)	50 $\Omega$ (nominal)
Phase match	$\leq 4^\circ$ (at 2 GHz)	
Return Loss	$\geq 24$ dB (300 kHz to 2 GHz) $\geq 22$ dB (2 to 3 GHz)	$\geq 24$ dB (300 kHz to 2 GHz) $\geq 22$ dB (2 to 3 GHz)

## PHYSICAL CHARACTERISTICS

Connectors	type-N (m)	type-N (m)
Length	61 cm (24 inches)	86 cm (34 inches)
Weight (all 4 cables)		
Net	0.91 kg (2 lbs)	
Shipping	1.36 kg (3 lbs)	



**HEWLETT  
PACKARD**

For more information, call your local HP sales office listed in the telephone directory white pages. Ask for the Electronic Instruments Department. Or write to Hewlett-Packard: **U.S.A.** - P. O. Box 10301, Palo Alto, CA 94303-0690. **Europe** - P.O. Box 999, 1180 AZ Amstelveen, The Netherlands. **Canada** - 6877 Goreway Drive, Mississauga L4V 1M8, Ontario. **Japan** - Yokogawa-Hewlett-Packard Ltd., 3-29-21, Takaido-Higashi, Suginami-ku, Tokyo 168. **Elsewhere** in the world, write to Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, CA 94304.

**MANUAL PART NO. 11851-90007**  
**Microfiche Part No. 11851-90008**

Printed in U.S.A.